

CLAIMS

1. Multilayer structure comprising a metal layer or a metallized-substrate layer (5) and a polypropylene-based binder layer (6) extrusion-coated at a rate of more than 100 m/min. onto the said metal or metallized-substrate layer, the said layers (6, 5) being made non-delaminable by heat treating the said structure.
- 10 2. Structure according to Claim 1, characterized in that the heat treatment is carried out by infrared radiation, by passing it through a hot-air or induction-heating tunnel, the metal layer (5) being heated to a temperature above the melting point of the binder (6).
- 15 3. Structure according to either of the preceding claims, characterized in that the said structure comprises a polypropylene layer (7, 2) having a melting point above the melting point of the binder, the binder layer (6) being sandwiched between the metal layer metallized-substrate layer (5) and the polypropylene layer (7, 2).
- 20 4. Structure according to Claim 3, characterized in that the said structure is peelable with a peel force for peeling the binder layer (6) off the polypropylene layer (7, 2) of between 8 and 15 N/15 mm.
- 25 5. Structure according to one of the preceding claims, characterized in that the extrudable binder comprises by weight:
 - 30 - 5 to 30% of a copolymer (A) based on ethylene and one or more comonomers chosen from the group of carboxylic acid esters, vinyl esters and dienes;
 - 40 to 93% of a stretchable polypropylene (B), stretchability being defined as the ability of a rod extruded at a temperature of between 190°C and 240°C and pulled at a pull rate of between 50 and 250 m/min. not to break;
 - 2 to 30% of a polypropylene (C) functionalized by an unsaturated carboxylic acid anhydride;

the MFI of the composition being between 10 and 50 g/10 min. (at 230°C/2.16 kg).

6. Structure according to Claim 5, characterized in that the copolymer (A) of the binder is an ethylene/alkyl (meth)acrylate copolymer containing from 5 to 40% and preferably from 10 to 40% by weight of alkyl (meth)acrylate, the MFI being between 0.5 and 200 g/10 min. (at 190°C/2.16 kg).

10 7. Structure according to Claim 5, characterized in that the copolymer (A) of the binder is an ethylene/alkyl (meth)acrylate/maleic anhydride copolymer containing from 0 to 10% by weight of maleic anhydride and from 2 to 40% and preferably from 5 to 40% by weight of alkyl (meth)acrylate, the MFI being 15 between 0.5 and 200 g/10 min. (at 190°C/2.16 kg).

8. Structure according to Claim 5, characterized in that the copolymer (A) of the binder is a blend of the copolymers (A) of Claims 6 and 7.

20 9. Structure according to any one of Claims 5 to 7, in which the proportion of polypropylene (C) of the binder is between 1.5 and 6%, the said polypropylene (C) containing from 1.5 to 6% by weight of maleic anhydride.

25 10. Structure according to any one of Claims 5 to 7, in which the proportion of polypropylene (C) of the binder is between 10 and 25%, the said polypropylene (C) containing from 0.8 to 1.5% by weight of maleic anhydride.

30 11. Structure according to any one of Claims 5 to 7, in which the proportion of polypropylene (C) of the binder is between 3 and 5%, the said polypropylene (C) containing from 1.5 to 3% by weight of maleic anhydride.

35 12. Cover (4) comprising a structure according to one of Claims 1 to 11, in which the metal of the metal or metallized-substrate layer(5) is aluminium.

13. Package made of polypropylene or of a material covered with polypropylene, sealed by a cover (4) according to Claim 12.

14. Package made with a structure according to any one of Claims 1 to 11.

15. Package according to either of Claims 13 and 14, characterized in that it is sterilizable and resistant to food acids and high-performance solvents and greases.

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27